

Notice of Allowability

Application No.

10/010,859

Examiner

Mark R. Milia

Applicant(s)

YAGI, KEIICHI

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment received on 1/12/06.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


JOSEPH R. POKRZYWA
PRIMARY EXAMINER
ART DIVISION 2625

DETAILED ACTION

Response to Amendment

1. Applicant's amendment was received on 1/12/06 and has been entered and made of record. Currently, claims 1-18 are pending.

Drawings

2. Applicant's amendment to insert reference characters "24" and "28" to Figures 1 and 3 respectively and to insert reference characters into the specification that were previously omitted has overcome the objection as cited in the previous Office Action. Therefore the objection has been withdrawn.
3. The drawings were received on 1/12/06. These drawings are accepted.

Response to Arguments

4. Applicant's arguments, see pages 11-19, filed 1/12/06, with respect to the rejection of claims 1-18 have been fully considered and are persuasive. Also, the current amendment to claims 1, 8, 12, 13, 15, and 17 overcome the prior art. Therefore, the rejection of claims 1-18 has been withdrawn.

Examiner's Amendment

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Christopher J. Fildes on 3/22/06.

The application has been amended as follows:

Regarding claim 1, in the last limitation, the term "recoding" should read, "recording".

Regarding claim 3, the term "parallel" should be removed.

Allowable Subject Matter

6. Claims 1-18 are allowed.

7. The following is an examiner's statement of reasons for allowance:

The examiner believes that it would not have been obvious to one of ordinary skill in the art at the time the invention was made to combine recording plural bars on a recording medium with a second recording head that overlaps plural reference parallel bars to form a recording position adjusting pattern wherein the plural bars have different inclinations relative to each other with the other limitations as set forth in the claims.

The closest prior art reference, previously noted as Underwood et al. (US 6109722), discloses a method of aligning different color print heads by first printing parallel reference lines in black ink and then printing an overlaid array of parallel color ink lines to determine accuracy of alignment. However, Underwood fails to disclose recording plural bars on a recording medium with a second recording head that overlaps plural reference parallel bars to form a recording position adjusting pattern wherein the plural bars have different inclinations relative to each other.

The prior art reference of Otsuki (US 6554387) discloses a system to correct misalignment of recording positions by printing parallel reference lines in a forward pass and printing lines of a different inclination on the reverse pass to determine the amount of misalignment present in the system. However, Otsuki fails to disclose recording plural bars on a recording medium with a second recording head that overlaps plural reference parallel bars to form a recording position adjusting pattern wherein the plural bars have different inclinations relative to each other.

Therefore, for these reasons, the claims are rendered allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (571) 272-7408. The examiner can normally be reached M-F 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler M. Lamb can be reached at (571) 272-7406. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MRM

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